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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Jingyue Ju, et al
U.S. Serial No. : 09/823,181
Filed : March 30, 2001
For : HIGH-FIDELITY DNA SEQUENCING USING SOLID
PHASE CAPTURABLE DIDEXOYNUCLEOTIDES AND
MASS SPECTROMETRY

1185 Avenue of the Americas
New York, New York 10036
July 6, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. § 1.56, applicants would like to direct the Examiner's attention to the following references which are listed on the attached Form PTO-1449 (**Exhibit 1**) and attached hereto as **Exhibits 2-13**:

1. U.S. Patent No. 5,876,936, issued March 2, 1999, Ju et al. (**Exhibit 2**);
2. U.S. Patent No. 6,046,005, issued April 4, 2000, Ju et al. (**Exhibit 3**);
3. Bergseid M, Baytan AR, Wiley JP, Ankener WM, Stolowitz, Hughs KA, Chestnut JD (2000) Small-molecule base chemical affinity system for the purification of proteins. BioTechniques 29: 1126-1133. (**Exhibit 4**);

4. Chiu NH, Tang K, Yip P, Braun A, Koster H, Cantor CR. (2000) Mass spectrometry of single-stranded restriction fragments captured by an undigested complementary sequence. *Nucleic Acids Res.* 28: E31. **(Exhibit 5);**
5. Fei Z, Ono T, Smith LM. (1998) MALDI-TOF mass spectrometric typing of single nucleotide polymorphisms with mass-tagged ddNTPs. *Nucleic Acids Res.* 26: 2827-2828. **(Exhibit 6);**
6. Fu DJ, Tang K, Braun A, Reuter D, Darnhofer-Demar B, Little DP, O'Donnell MJ, Cantor CR, Koster H. (1998) Sequencing exons 5 to 8 of the p53 gene by MALDI-TOF mass spectrometry. *Nat Biotechnol.* 16: 381-384. **(Exhibit 7);**
7. Jurinke C, van de Boom D, Collazo V, Luchow A, Jacob A, Koster H. (1997) Recovery of nucleic acids from immobilized biotin-streptavidin complexes using ammonium hydroxide and applications in MALDI-TOF mass spectrometry. *Anal. Chem.* 69: 904-910. **(Exhibit 8);**
8. Monforte JA, Becker CH (1997) High-throughput DNA analysis by time-of-flight mass spectrometry. *Nat Med.* 3(3): 360-362. **(Exhibit 9);**
9. Olejnik J, Ludemann HC, Krzymanska-Olejnik E, Berkenkamp S, Hillenkamp F, Rothschild KJ. (1999) Photocleavable peptide-DNA conjugates: synthesis and applications to DNA analysis using MALDI-MS. *Nucleic Acids Res.* 27: 4626-4631. **(Exhibit 10);**
10. Roskey MT, Juhasz P, Smirnov IP, Takach EJ, Martin SA, Haff LA. (1996) DNA sequencing by delayed extraction-matrix-assisted laser desorption/ionization time of flight mass spectrometry. *Proc. Natl. Acad. Sci. USA.* 93: 4724-4729. **(Exhibit 11);**

Jingyue Ju et al.
Serial No.: 09/823,181
Filed: March 30, 2001
Page 3

11. Tang K, Fu DJ, Julien D, Braun A, Cantor CR, Koster H. (1999) Chip-based genotyping by mass spectrometry. Proc. Natl. Acad. Sci. USA. 96: 10016-10020. (Exhibit 12);
12. Tong, X., Smith LM (1992) Solid-Phase Method for the Purification of DNA Sequencing Reactions. Anal. Chem. 64: 2672-2677. (Exhibit 13).

If a telephone interview would be of assistance in advancing the prosecution of the subject application, applicants' undersigned attorney invites the Examiner to telephone him at the number provided.

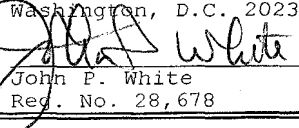
No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,



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I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:
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